



FortiManager - Release Notes

VERSION 5.4.0

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FortiManager - Release Notes

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Change Log

| Date | Change Description |
|------------|----------------------------------------------------------------------------------|
| 2016-02-17 | Initial release. |
| 2016-02-18 | Corrected FortiGate and FortiClient supported models. |
| 2016-02-19 | Updated FortiManager 5.4.0 support information; added Known Issue 310570. |
| 2016-02-24 | Updated language support; added ADOM support to Special Notices. |
| 2016-03-31 | Added support for FortiOS/FortiOS Carrier 5.2.7 and compatibility issues. |
| 2016-04-26 | Added 307847 to Resolved Issues. |
| 2016-05-25 | Added FAZ-400E for version 5.4 to Supported Models. |
| 2016-06-22 | Added FAZ-1000E for version 5.4 to Supported Models. |
| 2016-07-12 | Made minor correction of FortiManager 5.4.0 support for FortiOS/FortiOS Carrier. |
| 2016-12-29 | Added special notice about Hyper-V FortiManager-VM running on an AMD CPU. |

Introduction

This document provides the following information for FortiManager 5.4.0 build 1019:

- [Supported models](#)
- [What's new in FortiManager 5.4.0](#)
- [Special Notices](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Compatibility with FortiOS Versions](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [FortiGuard Distribution Servers \(FDS\)](#)

For more information on upgrading your device, see the FortiManager *Upgrade Guide*.

Supported models

FortiManager version 5.4.0 supports the following models:

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| FortiManager | FMG-200D, FMG-300D, FMG-300E, FMG-1000D, FMG-3000C, FMG-3900E, FMG-4000D, and FMG-4000E. |
| FortiManager VM | FMG-VM32, FMG-VM64, FMG-VM64-XEN (for both Citrix and Open Source Xen), FMG-VM64-KVM, FMG-VM64-AWS, and FMG-VM64-HV. |

What's new in FortiManager 5.4.0

The following is a list of new features and enhancements in 5.4.0. For details, see *FortiManager Administrator Guide*.



Not all features/enhancements listed below are supported on all models

- Address, Service, and Schedule used objects deletion
- Integrated FortiGuard License Management page in GUI
- ADOM exclusions for Administrator
- Centralized SSL-VPN management
- VPN management usability improvements
- Unique policy names
- Unmapped zone improvements

- Revision Control Extensions
- Handling of Installation Error improvements
- Sort ADOM list by Mode
- Option to find Duplicated Objects
- Policy Hit Count support
- Support Management of FSSO User/Group at the ADOM level
- New WebUI Navigation when ADOM is Enabled
- WAN Link Load Balance Manager
- Pay-as-you-go License Server
- FortiClient Endpoint Manager
- Responsive flat GUI

Special Notices

This section highlights some of the operational changes that administrators should be aware of in 5.4.0.

Hyper-V FortiManager-VM running on an AMD CPU

A Hyper-V FMG-VM running on a PC with an AMD CPU may experience a kernel panic. Fortinet recommends running VMs on an Intel-based PC.

ADOM Upgrade for FortiManager 5.4

Upgrade is available for ADOM version 5.0 to migrate to version 5.2. Currently, there is no ADOM upgrade option for ADOM version 5.2 to move to version 5.4.

Monitors and Queries with FortiOS 5.4.0

The following monitors and queries on FortiManager require installing a dedicated FortiOS 5.4.0 build:

- FortiClient Monitor
- FortiAP Monitor
- VPN Monitor
- Policy Hit Count
- All Query functions on Device Manager

Please contact Fortinet Customer Support to download the dedicated build.

Multicast Policy Support at ADOM Level

Starting from FortiManager 5.2.2, configuration for multicast policy has been moved from individual FortiGate devices to an ADOM database. For FortiManager units that are upgraded from a previous release, all multicast policies must be imported into the ADOM database or reconfigured manually. Otherwise, the FortiManager will delete all existing multicast policies on the FortiGate when installing a policy package.

ADOM for FortiGate 4.3 Devices

FortiManager 5.4 no longer supports FortiGate 4.3 devices. FortiManager cannot manage the devices after the upgrade. To continue managing those devices, please upgrade all FortiGate 4.3 to a supported version, retrieve the latest configuration from the devices, and move the devices to an ADOM database with the corresponding version.

SSLv3 on FortiManager-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiManager-VM64-AWS only enables TLSv1 by default. All other models enable both TLSv1 and SSLv3. If you wish to disable SSLv3 support, please run:

```
config system global
set ssl-protocol tlsv1
end
```

SQL database rebuild

Upgrading the device firmware can trigger an SQL database rebuild. During this time, new logs will not be available until the rebuild is complete. The time required to rebuild the database is dependent on the size of the database. You can use the `diagnose sql status rebuild-db` command to display the SQL log database rebuild status.

The following features will not be available until after the SQL database rebuild has completed: FortiView, Log View, Event Management, and Reports.

Web Portal support

Web Portal is no longer available as it has been replaced by Restricted Admin Profile. Users can still access web portal content via the Web Portal API services.

CLI commands for configuring dynamic objects

All dynamic objects are consolidated from devices to the ADOM database. For those users who wish to configure a dynamic mapping via a CLI script, the configuration for the mapping must be defined in the dynamic object under the `config dynamic_mapping` sub-tree. Also, the CLI script must be run on policy package instead of the device database. Below are some examples:

Example 1: Dynamic VIP

```
config firewall vip
edit "vip1"
...
config dynamic_mapping
edit "FW60CA3911000089"-"root"
set extintf "any"
set extip 172.18.26.100
set mappedip 192.168.3.100
set arp-reply disable
next
end
end
```

Example 2: Dynamic Address

```
config firewall address
  edit "address1"
  ...
  config dynamic_mapping
    edit "FW60CA3911000089"-"root"
      set subnet 192.168.4.0 255.255.255.0
    next
  end
end
```

Example 3: Dynamic Interface

```
config dynamic interface
...
  config dynamic_mapping
    edit "FW60CA3911000089"-"root"
      set local-intf internal
      set intrazone-deny disable
    next
  end
end
```

FortiManager VM

In VM environments, upgrade your VM server to latest stable update and patch release offered by the VM host server provider before installing or upgrading FortiManager VM.

FortiAnalyzer feature set

In version 5.2.0 or later, the FortiAnalyzer feature set (FortiView, Event Management, and Reports) is disabled by default. To enable the FortiAnalyzer feature set, enter the following CLI commands:

```
config system global
  set faz-status enable
end
Changing faz status will affect FAZ feature in FMG. If you continue, system will reboot
to add/remove FAZ feature.
Do you want to continue? (y/n)
```

Enter **y** to continue, your device will reboot with the FortiAnalyzer features enabled.



In version 5.4.0, you can enable the FortiAnalyzer feature set in the Web-based Manager. Go to *System Settings > Dashboard*. In the *System Information* widget, beside *FortiAnalyzer Features*, select *Enabled*.

FortiGate firmware upgrade

After completing a FortiGate firmware upgrade via FortiManager, you must manually retrieve the device configuration.

System time on FortiManager VM

If an NTP server is not reachable from a FortiManager VM unit, it will use the VMware ESX/ESXi host's time as the system time.

Memory requirement for FortiManager VM64-HV

A minimum of 2GB of memory is required to normally operate FortiManager VM64-HV for Microsoft Hyper-V environments.

ADOM for FortiCarrier

Please note that FortiGate and FortiCarrier devices can no longer be grouped into the same ADOM in FortiManager. FortiCarrier devices should be grouped into a dedicated FortiCarrier ADOM.

After upgrade, FortiCarrier devices will no longer be shown in any of the existing ADOMs. When creating a FortiCarrier ADOM, the FortiCarrier devices will be listed and can be grouped into the ADOM.



ADOM mode must be enabled in order to create a FortiCarrier ADOM and manage FortiCarrier devices.

FortiOS 5.0 override server setting for FortiGuard Services

FortiOS no longer has the option to specify an IP address or a domain name for FortiGuard services. FortiGate either connects to the FortiGuard Distribution Network (FDN) or the managing FortiManager for update services. If a FortiGate is required to retrieve updates from a specific FortiManager or FortiGuard server, please use port address translation (PAT) to redirect update traffic to the proper IP address and port.



This is applicable to FortiOS version 5.0 devices only. FortiOS version 5.2 has a different behavior.

Ports used by FortiGuard services

| Port | Service |
|------------|---------------------------------------------------|
| 8890 | Antivirus or IPS updates for FortiGate |
| 53 or 8888 | Web Filtering or Antispam queries for FortiGate |
| 8891 | Antivirus or IPS updates for FortiClient |
| 80 | Web Filtering or Antispam queries for FortiClient |

The public FDN uses port 443 to provide antivirus/IPS updates. In FortiManager, it uses port 8890 (FortiGate) / port 8891 (FortiClient) instead. See the two examples below.

Example 1: Antivirus/IPS

In this example, the FortiGate (10.1.100.1) is managed by FortiManager1 (172.16.200.102) and gets antivirus/IPS updates from FortiManager2 (172.16.200.207). A NAT/PAT device (10.1.100.2/172.16.200.2) sits between the FortiGate and the FortiManager.

In the FortiGate, enter the following CLI commands to enable FortiManager FDS override and set the FortiManager IP address (internal IP on NAT/PAT device):

```
config system central-management
  set fortimanager-fds-override enable
  set fmg "10.1.100.2"
end
```

On the NAT/PAT device, configure the following IP and port translations:

```
10.1.100.2:8890 -> 172.16.200.207:8890
10.1.100.2:541 -> 172.16.200.102:541
```

Example 2: Web filtering/Antispam

In this example, the FortiGate (10.1.100.1) is managed by FortiManager1 (172.16.200.102) and performs web filtering and antispam queries on FortiManager2 (172.16.200.207). A NAT/PAT device (10.1.100.2/172.16.200.2) sits between the FortiGate and the FortiManager.

On the FortiGate, enter the following CLI commands to enable FortiManager FDS override and set the FortiManager IP address (internal IP on NAT/PAT device):

```
config system central-management
  set fortimanager-fds-override enable
  set fmg "10.1.100.2"
end
```

On the NAT/PAT device, configure the following IP and port translations:

```
10.1.100.2:53/8888 -> 172.16.200.207:53/8888
10.1.100.2:541 -> 172.16.200.102:541
```

Update services provided to FortiMail 4.2 devices

Please enable the following option in order to provide update services to FortiMail version 4.2 devices:

```
config fmupdate support-pre-fgt43
    set status enable
end
```

Endpoint management

In version 5.0 and later, FortiClient endpoint agent configuration and management are now handled by the FortiGate Endpoint Control feature. You can configure your FortiGate device to discover new devices on your network, enforce FortiClient registration, and deploy a pre-configured endpoint profile to connected devices. This feature requires a FortiGate device running FortiOS version 5.0.0 or later.

For more information, see the *Device and Client Reputation for FortiOS Handbook* available at <http://docs.fortinet.com>.

FortiManager VM license check

As part of the license validation process, FortiManager compares its IP addresses with the IP information in the license file. If the IP addresses do not match, FortiManager returns the error `IP does not match` as part of the CLI command `get system status` output. If a new license has been imported or the FortiManager's IP address has been changed, the FortiManager will reboot itself for the system to validate the change and operate with a valid license.

Multi-language display support

FortiManager has restrictions on supporting the multi-language display of a FortiGate device.

Importing a FortiManager generated policy

FortiManager has the option to import all policies from a FortiGate device into a single policy package. Due to design limitations, the import process removes all policies with FortiManager generated policy IDs, such as 1073741825, that previously were learned by a FortiManager unit. The FortiGate unit may inherit a policy ID from:

- Global Header Policy
- Global Footer Policy
- VPN Console

Importing profile group and RADIUS dynamic start server

Please be advised that the *Import Wizard* does not import profile group and RADIUS dynamic start server objects which are not referenced by firewall policies. Please configure those objects on your FortiManager device.

Push update in bi-directional static NAT

Whenever there is a NAT device between FortiGate devices and the FortiManager with bi-directional static NAT enabled, you must follow the instructions below in order for FortiGate devices to receive *Push Update* announcements from the FortiManager.

Configure the following settings on FortiManager:

```
config fmupdate av-ips push-override-to-client
  set status enable
  config announce-ip
    edit 1
      set ip <the override IP that the FortiGate uses to download updates from the
        FortiManager>
      set port <the port that the FortiManager uses to send the update announcement>
    end
  end
end
```

Upgrade Information

Upgrading to FortiManager 5.4.0

You can upgrade FortiManager 5.2.0 or later directly to 5.4.0. If you are upgrading from versions earlier than 5.2.0, you will need to upgrade to FortiManager 5.2 first (we recommend that you upgrade to 5.2.4, the latest version of FortiManager 5.2).



For details about upgrading your FortiManager device, see the *FortiManager Upgrade Guide*.

Downgrading to previous firmware versions

FortiManager does not provide a full downgrade path. You can downgrade to a previous firmware release via the GUI or CLI, but doing so results in configuration loss. A system reset is required after the firmware downgrading process has completed. To reset the system, use the following CLI commands via a console port connection:

```
execute reset {all-settings | all-except-ip}
execute format {disk | disk-ext4 | disk-ext3}
```

FortiManager VM firmware

Fortinet provides FortiManager VM firmware images for Amazon AWS, Microsoft Hyper-V Server, and VMware ESX/ESXi virtualization environments.

Amazon Web Services

- The 64-bits Amazon Machine Image (AMI) is available on the AWS marketplace.

Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bits firmware image to upgrade your existing FortiManager VM installation.
- `.out.OpenXen.zip`: Download the 64-bits package for a new FortiAnalyzer VM installation. This package contains the QCOW2 file for the Open Source Xen Server.
- `.out.CitrixXen.zip`: Download the 64-bits package for a new FortiManager VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

Linux KVM

- `.out`: Download the 64-bits firmware image to upgrade your existing FortiManager VM installation.
- `.out.kvm.zip`: Download the 64-bits package for a new FortiManager VM installation. This package contains QCOW2 that can be used by qemu.

Microsoft Hyper-V Server

- `.out`: Download the firmware image to upgrade your existing FortiManager VM installation.
- `.hyperv.zip`: Download the package for a new FortiManager VM installation. This package contains a Virtual Hard Disk (VHD) file for Microsoft Hyper-V Server.

VMware ESX/ESXi

- `.out`: Download either the 32-bit or 64-bit firmware image to upgrade your existing VM installation.
- `.ovf.zip`: Download either the 32-bit or 64-bit package for a new VM installation. This package contains an Open Virtualization Format (OVF) file for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.



For more information see the FortiManager product data sheet available on the Fortinet web site, <http://www.fortinet.com/products/fortimanager/virtual-security-management.html>. VM installation guides are available in the [Fortinet Document Library](#).

Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

SNMP MIB files

You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER.mib* MIB file in the firmware image file folder. The Fortinet Core MIB file is located in the main FortiManager version 5.00 file folder.

Product Integration and Support

FortiManager 5.4.0 support

The following table lists 5.4.0 product integration and support information:

| | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web Browsers | <ul style="list-style-type: none">• Microsoft Internet Explorer 11.0• Mozilla Firefox version 42• Google Chrome version 47 <p>Other web browsers may function correctly, but are not supported by Fortinet.</p> |
| FortiOS/FortiOS Carrier | <ul style="list-style-type: none">• 5.4.0• 5.2.0 to 5.2.7 <p>FortiManager 5.4.0 is fully tested as compatible with FortiOS/FortiOS Carrier 5.2.0 to 5.2.7, with some minor interoperability issues. For information, see Compatibility with FortiOS Versions on page 26.</p> <ul style="list-style-type: none">• 5.0.4 to 5.0.12 <p>FortiManager 5.4.0 is fully tested as compatible with FortiOS/FortiOS Carrier 5.0.4 to 5.0.12, with some minor interoperability issues. For information, see Compatibility with FortiOS Versions on page 26.</p> |
| FortiAnalyzer | <ul style="list-style-type: none">• 5.4.0• 5.2.0 to 5.2.5• 5.0.0 to 5.0.11 |
| FortiCache | <ul style="list-style-type: none">• 3.1.1• 3.0.0 to 3.0.4 |
| FortiClient | <ul style="list-style-type: none">• 5.4.0• 5.2.0 and later |
| FortiMail | <ul style="list-style-type: none">• 5.3.1• 5.2.6• 5.1.5• 5.0.8 |

| | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FortiSandbox | <ul style="list-style-type: none"> • 2.1.2 • 1.4.0 and later • 1.3.0 • 1.2.0 and 1.2.3 |
| FortiSwitch ATCA | <ul style="list-style-type: none"> • 5.2.3 • 5.0.0 and later • 4.3.0 and later • 4.2.0 and later |
| FortiWeb | <ul style="list-style-type: none"> • 5.5.1 • 5.4.0 • 5.3.7 • 5.2.4 • 5.1.4 • 5.0.6 |
| FortiDDoS | <ul style="list-style-type: none"> • 4.1.11 |
| Virtualization | <ul style="list-style-type: none"> • Amazon Web Service AMI, Amazon EC2, Amazon EBS • Citrix XenServer 6.2 • Linux KVM Redhat 6.5 • Microsoft Hyper-V Server 2008 R2, 2012 & 2012 R2 • OpenSource XenServer 4.2.5 • VMware <ul style="list-style-type: none"> • ESX versions 4.0 and 4.1 • ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, and 6.0 |



To confirm that a device model or firmware version is supported by current firmware version running on FortiManager, run the following CLI command:
`diagnose dvm supported-platforms list`



Always review the Release Notes of the supported platform firmware version before upgrading your device.

Feature support

The following table lists FortiManager feature support for managed platforms.

| Platform | Management Features | FortiGuard Update Services | Reports | Logging |
|------------------|---------------------|----------------------------|---------|---------|
| FortiGate | ✓ | ✓ | ✓ | ✓ |
| FortiCarrier | ✓ | ✓ | ✓ | ✓ |
| FortiAnalyzer | | | | |
| FortiCache | | | ✓ | ✓ |
| FortiClient | | ✓ | | ✓ |
| FortiMail | | ✓ | ✓ | ✓ |
| FortiSandbox | ✓ | ✓ | | ✓ |
| FortiSwitch ATCA | ✓ | | | |
| FortiWeb | | ✓ | ✓ | ✓ |
| Syslog | | | | ✓ |

Language support

The following table lists FortiManager language support information.

| Language | GUI | Reports |
|-----------------------|-----|---------|
| English | ✓ | ✓ |
| Chinese (Simplified) | ✓ | ✓ |
| Chinese (Traditional) | ✓ | ✓ |
| French | | ✓ |
| Japanese | ✓ | ✓ |
| Korean | ✓ | ✓ |
| Portuguese | | ✓ |
| Spanish | | ✓ |

To change the FortiManager language setting, go to *System Settings > Admin > Admin Settings*, in *Administrative Settings > Language* select the desired language on the drop-down menu. The default value is *Auto Detect*.

Russian, Hebrew, and Hungarian are not included in the default report languages. You can import language translation files for these languages via the command line interface using one of the following commands:

```
execute sql-report import-lang <language name> <ftp> <server IP address> <user name>
    <password> <file name>
execute sql-report import-lang <language name> <sftp> <server IP address> <user name>
    <password> <file name>
execute sql-report import-lang <language name> <scp> <server IP address> <user name>
    <password> <file name>
execute sql-report import-lang <language name> <tftp> <server IP address> <file name>
```

For more information, see the *FortiManager CLI Reference*.

Supported models

The following tables list which FortiGate, FortiCarrier, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch ATCA, FortiWeb, and FortiCache models and firmware versions that can be managed by a FortiManager or send logs to a FortiManager running version 5.4.0.

FortiGate models

| Model | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiGate: FG-30D, FG-30D-POE, FG-30E, FG-50E, FG-51E, FG-60D, FG-60D-POE, FG-70D, FG-70D-POE, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-140D, FG-140D-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FGT-280D-POE, FGT-300D, FG-400D, FG-500D, FG-600C, FG-600D, FG-800C, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810D FortiGate 5000 Series: FG-5001C, FG-5001D FortiGate DC: FG-600C-DC, FG-800C-DC, FG-1000C-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810D-DC FortiGate Low Encryption: FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC FortiWiFi: FWF-30D, FWF-30E, FWF-50E, FWF-51E, FWF-30D-POE, FWF-60D, FWF-60D-POE, FWF-90D, FWF-90D-POE, FWF-92D FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN FortiGate Rugged: FGR-90D | 5.4 |

| Model | Firmware Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <p>FortiGate: FG-20C, FG-20C-ADSL-A, FG-30D, FG-30D-POE, FG-40C, FG-60C, FG-60C-POE, FG-60C-SFP, FG-60D, FG-60D-3G4G-VZW, FG-60D-POE, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-400D, FG-500D, FG-600D, FG-900D, FG-600C, FG-620B, FG-621B, FG-800C, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-3000D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810A, FG-3810D, FG-3950B, FG-3951B</p> <p>FortiGate 5000 Series: FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001D, FG-5101C</p> <p>FortiGate DC: FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC, FG-3810D-DC, FFG-3950B-DC, FG-3951B-DC</p> <p>FortiGate Low Encryption: FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-310B-LENC, FG-600C-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC</p> <p>FortiWiFi: FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CX-ADSL-A, FWF-60D, FWF-60D-3G4G-VZW, FWF-60D-POE, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p>FortiGate Rugged: FGR-60D, FGR-100C</p> <p>FortiGate VM: FG-VM-Azure, FG-VM, FG-VM64, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch: FS-5203B, FCT-5902D</p> | 5.2 |

| Model | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiGate: FG-20C, FG-20C-ADSL-A, FG-30D, FG-30D-POE, FG-40C, FG-60C, FG-60C-POE, FG-60C-SFP, FG-60D, FG-60D-3G4G-VZW, FG-60D-POE, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-500D, FG-600C, FG-620B, FG-621B, FG-700D, FG-800C, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-3000D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3810A, FG-3950B, FG-3951B FortiGate 5000 Series: FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001D, FG-5101C FortiGate DC: FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-1000C-DC, FG-1240B-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC, FG-3950B-DC, FG-3951B-DC FortiGate Low Encryption: FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-310B-LENC, FG-600C-LENC, FG-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC FortiWiFi: FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CX-ADSL-A, FWF-60D, FWF-60D-POE, FWF-60D-3G4G-VZW, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D FortiGate Rugged: FGR-60D, FGR-90D, FGR-100C FortiGateVoice: FGV-40D2, FGV-70D4 FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN FortiSwitch: FS-5203B | 5.0 |

FortiCarrier Models

| Model | Firmware Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiCarrier: FCR-3240C, FCR-3600C, FCR-5001C FortiCarrier DC: FCR-3240C-DC, FCR-3600C-DC FortiCarrier VM: FCR-VM, FCR-VM64 | 5.4 |
| FortiCarrier: FCR-3000D, FCR-3100D, FCR-3200D, FCR-3240C, FCR-3600C, FCR-3700D, FCR-3700DX, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C, FCR-5203B, FCR-5902D FortiCarrier DC: FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3951B-DC FortiCarrier Low Encryption: FCR-5001A-DW-LENC FortiCarrier VM: FCR-VM, FCR-VM64, FCR-VM64-HV, FCR-VM64-KVM, FCR-VM64-XEN | 5.2 |
| FortiCarrier: FCR-3240C, FCR-3600C, FCR-3810A, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C FortiCarrier DC: FCR-3240C-DC, FCR-3600C-DC, FCR-3810A-DC, FCR-3950B-DC, FCR-3951B-DC FortiCarrier Low Encryption: FCR-5001A-DW-LENC FortiCarrier VM: FCR-VM, FCR-VM64 | 5.0 |

FortiAnalyzer models

| Model | Firmware Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-3900E, FAZ-4000B FortiAnalyzer VM: FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN | 5.4 |
| FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400C, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-3900E, FAZ-4000B FortiAnalyzer VM: FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN | 5.2 |

| Model | Firmware Version |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiAnalyzer: FAZ-100C, FAZ-200D, FAZ-300D, FAZ-400B, FAZ-400C, FAZ-1000B, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000A, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3500E, FAZ-4000A, FAZ-4000B FortiAnalyzer VM: FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-HV, FAZ-VM-KVM, FAZ-VM-XEN | 5.0 |

FortiMail models

| Model | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiMail: FE-200D, FE-400C, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN | 5.2.2 |
| FortiMail: FE-100C, FE-200D, FE-400B, FE-400C, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B FortiMail VM: FE-VM64 | 5.1.4 |
| FortiMail: FE-100C, FE-200D, FE-400B, FE-400C, FE-1000D, FE-2000A, FE-2000B, FE-3000C, FE-3000D, FE-4000A, FE-5001A, FE-5002B FortiMail VM: FE-VM64 | 5.0.7 |

FortiSandbox models

| Model | Firmware Version |
|---------------------------------------------------------------------------------|---------------------------------------------|
| FortiSandbox: FSA-3500D | 2.1.0 |
| FortiSandbox: FSA-1000D, FSA-3000D FortiSandbox VM: FSA-VM | 2.0.0 1.4.2 |
| FortiSandbox: FSA-1000D, FSA-3000D | 1.4.0 and 1.4.1 1.3.0 1.2.0 and later |

FortiSwitch ACTA models

| Model | Firmware Version |
|------------------------------------|------------------|
| FortiController: FTCL-5902D | 5.2.0 |

| Model | Firmware Version |
|------------------------------------------------------------|------------------|
| FortiSwitch-ATCA: FS-5003A, FS-5003B | 5.0.0 |
| FortiController: FTCL-5103B, FTCL-5903C, FTCL-5913C | |
| FortiSwitch-ATCA: FS-5003A, FS-5003B | 4.3.0 4.2.0 |

FortiWeb models

| Model | Firmware Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| FortiWeb: FWB-100D, FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-4000C, FWB-4000D | 5.3.7 |
| FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, and FWB-HYPERV | |
| FortiWeb: FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-4000C, FWB-4000D | 5.3.3 |
| FortiWeb VM: FWB-VM64 | |
| FortiWeb: FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-4000C, FWB-4000D | 5.2.4 |
| FortiWeb VM: FWB-VM64, FWB-HYPERV,FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR | |

FortiCache models

| Model | Firmware Version |
|-------------------------------------------------------------------------|------------------|
| FortiCache: FCH-400C, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D | 3.0.0 and later |
| FortiCache VM: FCH-VM64 | |

Compatibility with FortiOS Versions

This section highlights compatibility issues that administrators should be aware of in 5.4.0.

Compatibility issues with FortiOS 5.2.7

The following table lists interoperability issues that have been identified with FortiManager version 5.4.0 and FortiOS 5.2.7.

| Bug ID | Description |
|--------|-------------------------------------------------------------------------------------|
| 365757 | Retrieve may fail on LDAP User Group if object filter has more than 511 characters. |
| 365766 | Retrieve may fail when there are more than 50 portals within a VDOM. |
| 365782 | Install may fail on system global optimize or system fips-cc entropy-token. |

Compatibility issues with FortiOS 5.2.6

The following table lists interoperability issues that have been identified with FortiManager version 5.4.0 and FortiOS 5.2.6.

| Bug ID | Description |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 308294 | 1) New default wtp-profile settings on FOS 5.2.6 cause verification errors during installation. 2) FortiManager only supports 10,000 firewall addresses while FortiOS 5.2.6 supports 20,000 firewall addresses. |

Compatibility issues with FortiOS 5.2.1

The following table lists interoperability issues that have been identified with FortiManager version 5.4.0 and FortiOS version 5.2.1.

| Bug ID | Description |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 262584 | When creating a VDOM for the first time it fails. |
| 263896 | If it contains the certificate: <code>Fortinet_CA_SSLProxy</code> or <code>Fortinet_SSLProxy</code> , <code>retrieve</code> may not work as expected. |

Compatibility issues with FortiOS 5.2.0

The following table lists known interoperability issues that have been identified with FortiManager version 5.4.0 and FortiOS version 5.2.0.

| Bug ID | Description |
|--------|----------------------------------------------------------------------------|
| 262584 | When creating a VDOM for the first time it fails. |
| 263949 | Installing a VIP with port forwarding and ICMP to a 5.2.0 FortiGate fails. |

Compatibility issues with FortiOS 5.0.5

The following table lists known interoperability issues that have been identified with FortiManager version 5.2.1 and FortiOS version 5.0.5.

| Bug ID | Description |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230199 | FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS 5.0.5 device causing the install to fail. FAP-320C is new for FortiOS 5.0.6. |

Compatibility issues with FortiOS 5.0.4

The following table lists known interoperability issues that have been identified with FortiManager version 5.4.0 and FortiOS version 5.0.4.

| Bug ID | Description |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 226064 | Attempting to install time zones 79 and 80 fails. These time zones were added in FortiOS 5.0.5. |
| 226078 | When the password length is increased to 128 characters, the installation fails. |
| 226098 | When installing a new endpoint-control profile, installation verification fails due to default value changes in FortiOS 5.0.5. |
| 226102 | If DHCP server is disabled, installation fails due to syntax changes in FortiOS 5.0.5. |
| 226203 | Installation of address groups to some FortiGate models may fail due to table size changes. The address group table size was increased in FortiOS 5.0.5. |
| 226236 | The <code>set dedicated-management-cpu enable</code> and <code>set user-anonymize enable</code> CLI commands fail on device install. These commands were added in FortiOS 5.0.5. |

| Bug ID | Description |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230199 | FortiManager allows the creation of a new FAP-320C WTP profile on a FortiOS 5.0.4 device causing the install to fail. FAP-320C is new for FortiOS 5.0.6. |

Resolved Issues

The following issues have been fixed in 5.4.0. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Device Manager

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 307184 | The cluster members of FortiGate-3200D are not displayed on FortiManager. |
| 306284 | FortiManager installs virtual-switch and system interface in a wrong order. |
| 305187 | FortiManager shows the same installed policy package name for two different VDOMs. |
| 305044 | The maximum number of VLANs per interface for FGT-30D is incorrect. |
| 302972 | FortiManager does not support FortiCarrier-3200D-DC. |
| 300563 | When users are scheduling a firmware upgrade, the date may be shown as NaN/NaN/NaN. |
| 299947 | Configuring the prefix value in router prefix list on a 64 bits platform may return "runtime error 23: beyond the boundary". |
| 297897 | Interface associations may be lost for address objects when a VDOM has dynamic mappings overriding the originally imported global objects. |
| 296946 | Import operation identifies constant conflicts for various objects between UNSET and EMPTY values. |
| 295908 | Under the Device Manager of FortiManager, the FortiGuard License of FortiGate is shown as Unknown. |
| 295861 | Users cannot configure multiple DNS servers on the interface editing page. |
| 295606 | Invalid IP range is defined on FortiManager for a dial-up IPsec VPN. |
| 294795 | Some attributes of CLI-Only objects have default interface/access list selected and they cannot be removed. |
| 294746 | The "config log disk setting" configurations should not be modified when it is imported to a model device DB. |

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 294549 | FortiManager may not bring up FGFM tunnel during the installation process. |
| 294179 | Users are unable to import fwpolicy-implicit-log setting to ADOM. |
| 294162 | Changing the fwpolicy-implicit-log setting at the device level does not change the Policy Package status. |
| 293842 | FortiManager is unable to import firewall policy if virtual-wan-linked interface is used in a Virtual IP object. |
| 292218 | FortiManager returns the "runtime error 89: duplicate ip in the list" error message when creating DHCP relay. |
| 291625 | FortiManager should not allow user to add "ha-mgmt-interface" as interface into "local-in-policy". |
| 290999 | Users cannot configure the DHCP Relay on Hardware Switch interface when it is set to Internal. |
| 289515 | FortiManager should not allow users to create a Static Route with a Distance Value equal to zero. |
| 288495 | Users may not be able to delete a VDOM via the Virtual Domain menu under Device Manager. |
| 288184 | When the install Wizard is canceled, the tasks stop working in the task monitor. |
| 287885 | FortiManager cannot View Detail and Download Conflict File during the policy package import process. |
| 287381 | The Device Template cannot be used if the DNS or NTP <code>source-ip</code> is set. |
| 286227 | After editing an interface filtered zone, the Dynamic Zone Mapping pop-up does not apply the changes to the filtered entries; it removes the filtered entries upon validation. |
| 285835 | All the ADOMs created by "Import Device List" are in Normal mode with VPN management "Central VPN Console". |
| 284806 | Search Group function does not work in the context of adding a device. |
| 284080 | During the policy package import process, FortiManager cannot <i>View Detail</i> or <i>Download Conflict File</i> . |
| 282048 | If a user enters a full or partial serial number of a HA slave unit, the <i>Search</i> function does not work. |

| Bug ID | Description |
|--------|----------------------------------------------------------------------------------------------------------------------------|
| 281563 | When setting channel bonding to either 40MHz or 80Mhz, FortiManager is unable to save the change. |
| 281328 | HA-reserved Management interface should only appear in the ADOM with the management VDOM. |
| 279181 | FortiManager may not be able to import an IPS custom signature. |
| 278968 | FortiManager cannot add descriptions to the MAC address list under a DHCP server. |
| 278634 | FortiManager may not be able to add an extra source address in an existing policy route. |
| 278625 | Tooltip for the Status column of an administrator displays "Enabled" or "Disabled" instead of "Logged on"/"Not Logged on". |
| 278565 | The web filter profile setting <i>Rate images by URL</i> does not work. |
| 278493 | When editing a zone from the GUI, the FortiManager is unable to delete the device interface. |
| 278485 | FortiManager cannot set Phase2 <i>auto-negotiate</i> parameter. |
| 278484 | Cloning static route returns: <i>runtime error 33: duplicate</i> . |
| 278483 | FortiManager cannot select <i>main</i> or <i>aggressive</i> mode when defining a new Phase1. |
| 278164 | Interface page cannot load because of the missing VDOM setting in the <code>mgmt</code> interface. |
| 277778 | Deleting an SSID from the WiFi Template may not update the device database. |
| 276174 | When editing a VLAN or interface, there is a typo "Map to Policy Interface". |
| 274490 | When the user cancels editing an interface, the FortiManager may direct to a different interface list. |
| 273905 | When editing a system interface, FortiManager returns <i>fail:[objectObject]</i> error message. |
| 271807 | FortiManager cannot recognize the SNMP Community Host Interfaces of FortiGate HA. |
| 271286 | FortiManager does not allow users to upload images larger than 6KB in a Replacement Message. |
| 270752 | When editing a zone, the FortiManager is missing the <code>Block intra-zone traffic</code> option. |

| Bug ID | Description |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| 268732 | FortiManager unsets the source-ip of FortiAnalyzer log settings in System Template during installation. |
| 264679 | Package status remains Modified after a restricted admin makes changes and does an installation. |
| 262574 | JSON query JSON for multiple Phase2 associated with Phase1 support. |
| 256571 | <i>Collapse All</i> action no longer works when using a Policy Package with large number of policies and/or Section Titles. |
| 255173 | When changing a SSID interface to "Local bridge with FortiAP's interface", the input for pre-shared key is missing. |
| 230400 | Device Manager column filters are not persistent. |
| 219930293949 | Add link status in the Zone and Interfaces page. |

Global ADOM

| Bug ID | Description |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 277330 | Assigning a global policy package should trigger the ADOM policy packages to update their status to "Modified". |
| 280009 | FortiManager cannot import a CA certificate in Global ADOM and configure the SSL/SSH Inspection Profile when selecting that CA Certificate. |
| 288087 | After upgrading to build B0724, Global Policy changes are not pushed to the ADOM level. |

Policy and Objects

| Bug ID | Description |
|--------|---------------------------------------------------------------------------------------------------------------|
| 295827 | When there are a large number of packages and policies, the "where used" function may stop working. |
| 212707 | The <i>Search</i> field cursor on a policy package and on a Firewall address object is not at the same place. |
| 233189 | IPSec phase 2 selector does not support IPv6. |

| Bug ID | Description |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 238233 | The Create New option of the Web Proxy Forwarding Server drop down list does not work as expected. |
| 255211 | Scrolling for policies with the scroll wheel does not display all the policy entries. |
| 256261 | FortiManager will always install <code>profile-protocol-options</code> on a policy with an IPS sensor. |
| 263459 | Creating or importing a local certificate may cause issues with the SSL Inspection Profile. |
| 263471 | After editing an address object, the FortiManager may not be able to display the object name if it contains the \ character. |
| 265261 | FortiManager cannot disable <i>SSL/SSH Inspection</i> from the Explicit Proxy Policy. |
| 268222 | IPS Signatures should also be visible under Global Object IPS Sensor profiles. |
| 268696 | <i>Used</i> for a Service Object does not work on Internet Explorer 11. |
| 275241 | <i>Copy</i> does not work when IP Pool's <code>arp-intf</code> is configured within a zone. |
| 275568 | After submitting FortiClient XML configuration changes, the changes are not saved. |
| 276470 | Changing the Advanced Options settings under the Web Filter Profile may not be properly applied in the ADOM database. |
| 276806 | Scheduled installs from a TACAS+ wildcard user does not work as expected. |
| 277061 | Web URL filter entries with more than 65 characters are truncated. |
| 277071 | There is a performance issue in the <i>Display</i> and <i>Search</i> interfaces. |
| 277711 | After selecting <i>Edit Interface Map</i> , FortiManager does not list the Zone. |
| 278089 | When <i>Workspace</i> is enabled, FortiManager may fail to import the device. <i>Failed to commit changes to DB</i> error message may appear. |
| 278357 | FortiManager is unable to identify a device interface, when <i>per-device mapping</i> is enabled, to a policy interface or device zone. |
| 278637 | The FortiManager may not be able to edit an interface from the displayed Search Results. |
| 279439 | After removing members from a VIP group, the change may not be saved. |
| 279534 | FortiManager is unable to view or use imported CA certificates. |

| Bug ID | Description |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 280112 | The . character is not allowed for a LDAP username. |
| 280324 | When configuring <code>ftgd-wf</code> categories on FortiGate 4.3 devices, <i>Disable</i> and <i>Enable</i> functionalities should be implemented. |
| 280607 | If a global policy is configured when an address that has <i>per-device mapping</i> enabled, the mapping is lost on policy import. |
| 280875 | In the SSL VPN Portal, users cannot disable the <i>Include Login History</i> option. |
| 281241 | <i>Copy</i> does not work when installing a 5.0 Policy Package to a 5.2 FortiGate device. |
| 281511 | FortiManager cannot display groups in LDAP Browsing. |
| 283754 | IPS signatures are not updated within the IPS Sensor Profiles. |
| 283950 | The Policy Search feature does not work correctly with collapsed sections. |
| 284319 | FortiManager reports the following error: <i>Install failed(dev-related info was changed, install it first)</i> during Policy Installation. |
| 284422 | Modification of the <code>Block intra-zone</code> setting is not installed in the FortiGate. |
| 284977 | When <i>User Bookmarks</i> are disabled, pre-defined bookmarks are not available. |
| 285408 | When the <i>Save</i> button is active, the <i>Toolbar Install Wizard</i> is not grayed out. |
| 285504 | Section View is not available if the name of a policy package contains the slash ("/") character. |
| 285530 | FortiManager removes the WANopt peer from the server configuration. |
| 285586 | The Preserver Client IP option of Load balance VIP is not available when HTTP(S) Multiplexing is not selected. |
| 286119 | Dynamic Mapping for a Global Address Object is not installed into the FortiGate device. |
| 286706 | The PAC file size is inconsistent between the FortiGate and FortiManager. |
| 288091 | When a Per-Device Mapping is configured on a Load Balance Object, FortiManager shows the <i>Loading Aborted</i> error on the Virtual IP page. |
| 288226 | If a FortiGate device is removed with Dynamic Mapping configured on the objects, some object pages display the <i>Loading Aborted</i> error message. |
| 288655 | The Policy interface selection drop down list does not show zones or interfaces. |

| Bug ID | Description |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 288704 | WAN optimization cannot be enabled via FortiManager. |
| 290213 | Editing URL Filter type should only save the edited entry without keeping the original entry. |
| 290252 | FortiManager returns the <i>Runtime Error 131</i> when right-clicking to add a WAN-load-balance interface. |
| 290986 | FortiManager prompts a runtime error while configuring address groups with URL objects. |
| 291043 | An object change pushed by a restricted admin results in the conflict state of the policy package. |
| 291163 | Warning message is not always displayed when adding duplicate address objects. |
| 291730 | Preview prompts the "Cannot open file" error message when SSID from WiFi template has overlapping IP addresses. |
| 292348 | Changing the action on any FortiGuard category within the webfilter profile under a 5.0 ADOM should not set category override and unset all exempted categories. |
| 293431 | A canceled Policy Package Installation preview makes changes to Device DB when Workspace is enabled. |
| 293594 | Users cannot use special characters in PKI user's Subject field. |
| 293941 | Making changes in the SSL-VPN portal may not trigger changes in policy package status. |
| 293949 | FortiManager cannot manage all SIP settings in a VOIP profile. |
| 295084 | A new UUID is created for a dynamically mapped address with a different comment for every import. |
| 295537 | Dynamic mapped objects show "N out of 0" for a FortiCarrier ADOM. |
| 295540 | FortiManager should not install "report layout - purge" with every policy package installation. |
| 295557 | Changes to User Group that reference an IPSec Phase1 object are not installed. |
| 295745 | When installing a v5.0 policy package to a v5.2 FortiGate device, firewall rules are not installed in the correct order. |
| 295828 | Multiple users cannot generate preview at the same time. |
| 295944 | Installation of a policy package changes the UUID of identity policies. |

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 296766 | Installation will fail when an interface of a policy is changed to the management interface. |
| 299515 | FortiManager does not report an error when users choose an SSL-VPN interface to be a member of zone. |
| 300814 | When there are a large number of firewall policies, it may take a long time to clone/edit a policy. |
| 300986 | Local interface names that contain space can lead to dynamic mapping config problems. |
| 301247 | Setting a Virtual IP as destination in a policy does not work when the External Interface binding of the Virtual IP is different from the destination interface in the policy. |
| 301695 | Field Service and Schedule are ignored during policy consistency check. |
| 302870 | Policies inside a renamed policy package will have an empty drop-down list for Source Interface and Destination Interface. |
| 302913 | Changes of the order of objects under identity-based-policy will not be installed on FortiGate. |
| 305726 | FortiManager cannot install guest user group <i>authtimeout</i> to FortiGate. |
| 306434 | The “Where used” function may show dynamic mapping of an address that has already been deleted. |

Revision History

| Bug ID | Description |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 268732 | When installing, the FortiManager tries to unset the source IP of a FortiAnalyzer device. |
| 270711 | When a FortiGate is added to a FortiManager, the formatting is not correct causing usability issues when trying to <i>diff</i> revisions. |
| 277294 | FortiManager removes multicast objects and policies unexpectedly. |
| 279075 | After upgrading, FortiManager sets up <code>tcp-portrange = 0</code> for some FortiOS versions. |
| 280187 | FortiManager is unable to retrieve 4.3 ADOM configuration. <i>Failed to reload configuration. Max entry.object wireless-controller error</i> message appears. |

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 280193 | When FortiGate HA is enabled, FortiManager disconnects mac addresses for VDOM-link interfaces. |
| 281050 | FortiManager sets <i>802.11n,g-only</i> band option as <i>802.11n g-only</i> to the wtp profile. |
| 282097 | FortiManager does not install security-groups to Captive Portal. |
| 283961 | Changing firewall address type from FQDN to IP results in installation failure. |
| 286392 | FortiManager rests the IPS block duration if <i>Quarantine</i> is disabled. |
| 286415 | FortiManager removes or inserts <i>None</i> objects when installing 5.0 ADOM policies to FortiGates running FortiOS 5.2. |
| 286686 | FortiManager should use set auth radius when the security mode requires RADIUS. |
| 286872 | After upgrading the ADOM from 5.0 to 5.2, FortiManager modifies the Global Firewall Policy UUID. |
| 287879 | Policy Package installation failure occurs following FortiManager upgrade from 5.2.2 to 5.2.3. |
| 287881 | Incorrect Revision History entry is highlighted. |
| 287882 | Nested dynamic address group changes are not installed. |
| 291044 | No auto ADOM revision is generated for restricted admin users during partial-installation. |
| 292459 | SSID configured with "captive portal" as the security mode and "Disclaimer Only" as the portal type does not get pushed to the FortiGate device. |
| 295338 | ADOM revision may not able to revert to a previous version after any type of changes. |
| 307894 | FortiManager may fail to create a VDOM on FortiGate-60D. |

Script

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------------------------------------|
| 300409 | Script for Radius server configuration leaves secondary-secret unencrypted in the execution history log of Task Monitor. |
| 259444 | Deselecting the "Advanced Device Filter" option for a script should clear the device filter. |

| Bug ID | Description |
|--------|----------------------------------------------------------------------------|
| 286111 | TCL Script stops working if the FortiGate SSH Port Number is not 22. |
| 290585 | FortiManager should allow importing scripts via SCP. |
| 301394 | No error is returned when function createScript misses parameter "target". |

Services

| Bug ID | Description |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 277389 | FortiManager stops working when <code>serviceaccess fclupdates</code> is enabled on a port number that is not 80. |
| 279272 | FortiGuard shows the Pending status for databases that FortiGate is not subscribed to. |
| 279475 | Using an image downloaded from FortiGuard, FortiManager is not able to upgrade a FortiGate's device firmware. |
| 287811 | The <code>um_db_service</code> process may consume high IO resource. |
| 294076 | When there are many requests, FortiManager VM users may not be able to log in. |
| 294410 | Null entry for server-access-priorities causes system to freeze on reboot and return the "cli 162 die in an exception in line -1: (null)" error message. |
| 298651 | When receiving auto-updates from a large number of FortiGates, FortiManager may run out of memory. |

System Settings

| Bug ID | Description |
|--------|------------------------------------------------------------------------------------------------------------------------|
| 227133 | The setup of a FortiManager HA cluster should not be allowed when the master and slave units have mismatched licenses. |
| 240128 | FortiManager does not encrypt schedule backup with a password containing 17 characters. |
| 242337 | The SNMP trap message is not proper when the administrative status of an interface is changed. |

| Bug ID | Description |
|--------|---------------------------------------------------------------------------------------------------------------------------------|
| 247941 | When logging in Wildcard users with a read-only profile on the HA slave unit, the Dashboard is blank |
| 277293 | When changing the HA Settings, it may cause the unrelated HA members to become out-of-sync and may trigger an offline cluster. |
| 279186 | When there is an on-going retrieve or installation task, the backup file may become corrupted. |
| 279415 | Authentication should not time out after a few seconds with two-factor authentication. |
| 280717 | Task Monitor entry refers to <code>rootp</code> ADOM instead of <code>Global</code> for Global Policy Assignments. |
| 281348 | FortiManager removes all policy packages and objects after upgrading ADOM. |
| 285956 | A device level install is incorrectly logged as an Install Package in the Task Monitor. |
| 286889 | When the Global Database is upgraded from 5.0 to 5.2, it returns the error: <code>fail (errno=-1):unknown.</code> |
| 289207 | After a configuration change on FortiGate, FortiManager may falsely report that certificate private keys have changed. |
| 291025 | Remote administrators are unable to approve a session under Workflow mode. |
| 296028 | When RADIUS authentication is configured with wildcard authentication, some actions are not logged with the correct user name. |
| 296235 | Multiple incorrect <code>webfilter_ftgd_local_rating</code> messages are reported in the Event log during the import operation. |
| 299728 | "Admin-lockout-threshold" and "admin-lockout-duration" do not work for SSH access. |
| 303922 | Users cannot select individual TLS versions. |

VPN Console

| Bug ID | Description |
|--------|-------------------------------------------------------------------------------------------------|
| 269222 | FortiManager is unable to remove VPN Console > External Gateway > Hub IP value once configured. |
| 271687 | After upgrading, FortiManager prompts the VPN Console to regenerate the pre-shared key. |

| Bug ID | Description |
|--------|-------------------------------------------------------------------------------------------------------------|
| 272932 | After modifying a user group, the dial up spoke user is not updated. |
| 289900 | The VPN Console should not generate a Status Route on the hub for its own protected subnet. |
| 301375 | Adding or deleting a Spoke in a Star topology VPN will change the policy package status of existing Spokes. |

Others

| Bug ID | Description |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 280054 | "Diagnose dvm check-integrity" reports "Checking duplicate device vdoms" errors without fixing them automatically. |
| 227634 | FortiManager should allow backup via SCP. |
| 253961 | Display the system uptime in a readable format instead of the Linux Epoch format. |
| 267042 | WSDL file should be generated with the right version number for ADOM 5.2. |
| 274415 | SNMP trap OID is not in the MIB. |
| 277392 | The FortiManager may take longer than expected to upgrade. |
| 279370 | After upgrading, FortiManager cannot display policies if the policy package does not have a name. |
| 279900 | FortiManager does not display Install On targets in CLI Command output: <code>execute fmpolicy print-adom-package<ADOM_ID><POLICY_PACKAGE_ID><Category>all</code> . |
| 280993 | FortiManager does not print out all the debug messages in the console. |
| 281172 | When the <code>exe fmpolicy check-upgrade-object</code> command is run, FortiManager may stop working. |
| 281263 | The legacy XML API <code><getInstLog></code> does not work in <i>Workspace</i> mode. |
| 281319 | FortiManager may not currently support: FG-3810D, FG-3810D-DC, FG-3700DX, FG-3200D, FG-70D-POE, FGV-40D2, and FGV-70D4. |
| 282094 | FortiManager does not support <code>HTTP "Expect: 100-continue"</code> mechanism for JSON request. |

| Bug ID | Description |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 282187 | Certificate setting cannot be changed on the FortiManager slave unit. |
| 284528 | Users are unable to use JSON API to get the ADOM Policy Package Exclusion List for a particular Global Policy Package/ADOM combination. |
| 284677 | Policy Package Status is changed to Modified after upgrade. |
| 288160 | FortiManager cannot install a policy via the <code>installConfig</code> SOAP XML request; it returns the <i>no write permission</i> error message. |
| 292138 | RADIUS wildcard user cannot login with JSON API. |
| 294191 | Users may not be able to install policy via JSON APIs with workspace enabled. |
| 294879 | Within a HA cluster, the password for the admin account is not synchronized to slave when password policy is enabled and triggered. |
| 295629 | Users cannot filter "pm/config/adom/<adom>/_package/status" with JSON APIs. |
| 295715 | FortiManager does not have a CLI command to retrieve sensor detail or sensor list. |
| 296788 | Users cannot use the Provisioning Template name string as a parameter in the CLI command "execute fmpolicy print-prov-templates". |
| 297164 | Users are not able to move and rename a Policy Package at the same time. |
| 298716 | In XML APIs, the <code>execSecurityconsoleInstallPackage</code> call with flag "preview" returns error message "runtime error -1: invalid value". |
| 299507 | The result formats of different JSON requests should be consistent. |
| 301181 | JSON API call "pm/config/adom/<adom>/_rule/list" does not return the same information as the output from FortiOS CLI command "get ips rule status". |
| 302389 | The CVE-2015-3193, CVE-2015-3194, CVE-2015-3195, and CVE-2015-3196 vulnerabilities have been addressed. |
| 303117 | After removed the secondary FortiManager from a FortiManager cluster, FortiGate does not remove the serial number of the secondary FortiManager from its configuration. |
| 306958 | The CVE-2016-0777 and CVE-2016-0778 vulnerabilities have been addressed. |
| 307237 | Users with two-factor authentication cannot log on via JSON APIs. |
| 307453 | Multiple JSON commands can be executed without authentication. |
| 307847 | Removed the maintainer account from FortiManager. |

Known Issues

The following issues have been identified in 5.4.0. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

Device Manager

| Bug ID | Description |
|--------|---------------------------------------------------------|
| 307995 | Users cannot save alert email settings at device level. |

Policy and Objects

| Bug ID | Description |
|--------|--------------------------------------------------------------------------------------------|
| 308211 | Policy package status may be changed to "modified" after importing another policy package. |
| 295333 | FortiManager should be able to disable logging within an IPS Sensor. |

VPN Manager

| Bug ID | Description |
|--------|------------------------------------------------------------------------------------------------|
| 307433 | FortiManager converts a /32 subnet into an IP address when configuring IPSec phase 2 settings. |

Others

| Bug ID | Description |
|--------|---------------------------------------------------------|
| 310570 | FortiSwitch device information is missing on dashboard. |

FortiGuard Distribution Servers (FDS)

In order for the FortiManager to request and retrieve updates from FDS, and for FortiManager to serve as a FDS, please configure the necessary settings on all devices between FortiManager and FDS, or between FortiManager and FortiGate devices based on the items listed below:

- FortiManager accesses FDS for antivirus and attack updates through TCP/SSL port 443.
- If there is a proxy server between FortiManager and FDS, FortiManager uses port 80 to communicate with the proxy server by default and connects to the proxy server using HTTP protocol.
- If FortiManager manages a FortiGate device located behind a proxy server, the proxy server permits TCP/SSL traffic to pass through via port 443.

FortiGuard Center update support

You can configure FortiManager as a local FDS to provide FortiGuard updates to other Fortinet devices and agents on your network. The following table lists which updates are available per platform/version:

| Platform | Version | Antivirus | AntiSpam | Vulnerability Scan | Software |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------------|----------|
| FortiClient (Windows) | <ul style="list-style-type: none">• 5.0.0 and later• 5.2.0 and later | ✓ | | ✓ | |
| FortiClient (Windows) | <ul style="list-style-type: none">• 4.3.0 and later | ✓ | | | |
| FortiClient (Windows) | <ul style="list-style-type: none">• 4.2.0 and later | ✓ | ✓ | | ✓ |
| FortiClient (Mac OS X) | <ul style="list-style-type: none">• 5.0.1 and later• 5.2.0 and later | ✓ | | ✓ | |
| FortiMail | <ul style="list-style-type: none">• 4.2.0 and later• 4.3.0 and later• 5.0.0 and later• 5.1.0 and later• 5.2.0 and later | ✓ | ✓ | | |
| FortiSandbox | <ul style="list-style-type: none">• 1.2.0, 1.2.3• 1.3.0• 1.4.0 and later | ✓ | | | |

| Platform | Version | Antivirus | AntiSpam | Vulnerability Scan | Software |
|----------|-------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------------|----------|
| FortiWeb | <ul style="list-style-type: none">• 5.0.6• 5.1.4• 5.2.0 and later• 5.3.0 | ✓ | | | |



To enable FortiGuard Center updates for FortiMail version 4.2 enter the following CLI command:

```
config fmupdate support-pre-fgt-43
  set status enable
end
```



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